

NCEP Annual Review 2005

Eastern Region

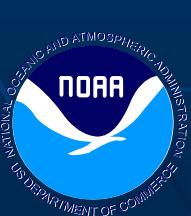
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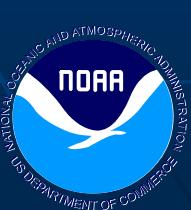
December 7, 2005



Eastern Region Issues and NCEP

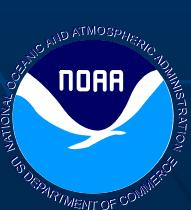
■ Issues and Drivers

- GFE and Days 4-7 (MICs)
- WRF implementation and model performance (SOOs)
- Forecaster feedback for NDFD gridded forecasts (Forecasters/SOOs)
- Tornado lead times/POD (GPRA – Dean)
- Marine wave height (GPRA – Dean)
- Storm surge/coastal flooding (SOOs/EM)



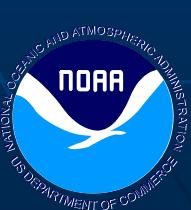
Days 4-7

- Efforts to support Days 4-7 NDFD grids greatly appreciated
 - 12 Planet collaborations with HPC overall successful
 - Forecasters would like to see grids earlier
 - Winds over marine areas could use some improvement



WRF Model Implementation

- **Information on WRF provided by Geoff DiMego**
- **Training and information by Jascourt and Bua**
- **Participation in DTC Winter Forecast Experiment (DWFE)**
 - **Positive experience for forecasters**
 - **Simulated reflectivity a big success**
 - **OSIP SON and CONOPS drafted for operational 12km simulated reflectivity products on AWIPS/SBN**
 - **Successful leveraging of initial WRF training efforts by NCSU (Lackman)**



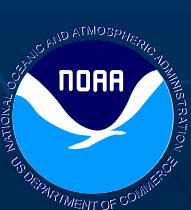
NDFD Issues

- **Real Time Mesoscale Analysis**
 - Needed for forecaster feedback on quality of gridded forecast
 - ER currently using LAPS for grid comparisons – could substitute RTMA
- **Sensible weather products needed to support GFE**
 - Simulated reflectivity, satellite produces
- **Guidance on near-shore wave height for grids**



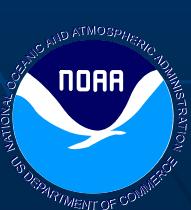
NAM-Eta Issues

- ER forecaster confidence in NAM is low compared to GFS
 - NAM performance issue vs. need for mesoscale model training?
 - Forecasters cautiously optimistic about WRF



Other Model Issues

- ER forecasters express strong negative perceptions about quality of 06 and 18UTC model runs
 - Primarily NAM but also GFS
 - Need cycle-based verification information
 - Reduced forecaster confidence may be impacting forecasts
 - 4/day runs may not be best use of resources if forecaster confidence hinders use of model



NCEP Test and Evaluation Process

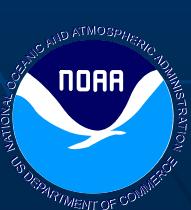
- ER is enthusiastic about inclusionary process that is evolving
- Materials developed can be adapted into office training activities
 - Example – High resolution SST material
- Issues:
 - Recent evaluations had short timelines and notifications – limits field participation and input
 - Evaluation web pages confusing and difficult to use



NCEP Test and Evaluation Process

■ Recommendations

- NCEP develop a schedule of planned evaluations**
- Identify resources to improve design of evaluation web pages**
- Consider possible use of FX-Net to display experimental datasets**



Summary

- **Continued support of gridded forecasts and NDFD**
 - Days 4-7, RTMA, Sensible weather products
- **WRF implementation**
- **Model issues**
 - Perceptions: NAM vs. GFS, 06 and 18UTC vs. 00 and 12UTC
- **NCEP Test and Evaluation Process**

